

Repository for Bioimaging Data

SSBD:repository

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<https://ssbd.riken.jp/repository/>



SSBD is a platform for sharing and reusing bioimaging data. SSBD:repository is an open data archive that stores and publishes bioimaging and quantitative biological datasets associated with published or forthcoming studies. It allows other researchers to access and download those datasets for reference or for further investigations.

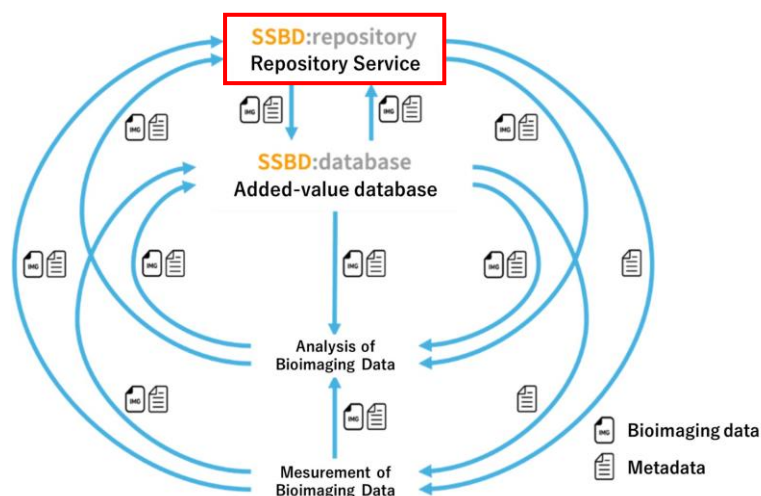
SSBD is one of the core ecosystems of foundingGIDE, an international consortium aimed at promoting the standardization and sharing of image data. It is expected to enhance the transparency and reliability of research and to contribute to scientific advancement through open science initiatives.

Regarding the Use of Included Data

The included datasets can be found by searching or through the resource list. Before reusing any data, please review the data citation policy and cite the data appropriately.

Data Citation Policy

https://ssbd.riken.jp/doc/citation_policies.pdf



About data registration

SSBD:repository accepts a wide range of bioimaging data, including microscopic image data, quantitative data obtained from image analysis, and related data for analysis. It also covers a broad range of scales, from single-molecule data to cell-, tissue-, organ- and organism-level data. Registered datasets are issued a DOI.

SSBD:repository uses Creative Commons licenses for data reuse (e.g., CC BY, CC BY-NC, CC BY-NC-SA). Data providers may select the license that meets their requirements.

There are no limitations on data size. Researchers wishing to register datasets should fill in the metadata on the data registration page. If there are problems with the data registration page or if there are many data providers, you can also fill in the necessary information in an Excel file and send it via email.

Data registration page <https://ssbd.riken.jp/submitter/project/submit>

Transfer of data and metadata

- Use RIKEN Box
- Use your online storage
- "Use the SSBD-dedicated upload site (WebDAV)
- Use a USB HDD/SSD
- Other methods

For details, please see the "About Data Registration" page on SSBD:repository.

<https://ssbd.riken.jp/repository/share-your-data/>

SSBD is supported under JST Database Integration Coordination Program (DICP), "Development of a global data sharing system for bioimaging data" (PI: ONAMI Shuichi, Team Director, Center for Biosystems Dynamics Research, RIKEN).

References

1. Kyoda K et al., SSBD: an ecosystem for enhanced sharing and reuse of bioimaging data, *Nucleic Acids Research*, Volume 53, Issue D1, 6 January 2025, Pages D1716-D1723, doi: 10.1093/nar/gkae860

Database for Bioimaging Data

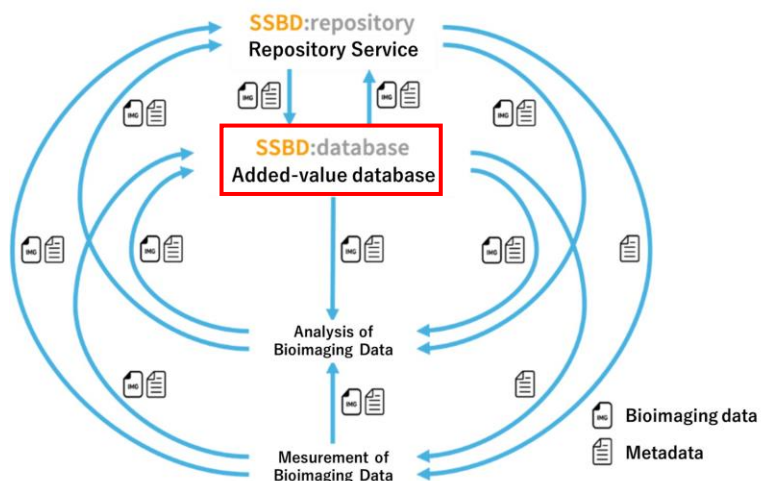
SSBD:database

SSBD:database

<https://ssbd.riken.jp/database/>

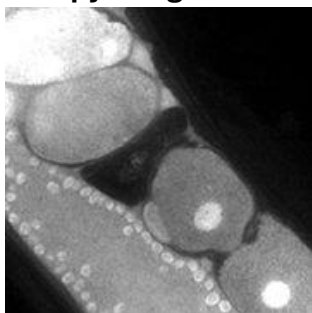


SSBD is a platform for sharing and reusing bioimaging data. SSBD:database is an added-value database for bioimages and biological dynamics data. It provides a rich set of open resources for analyzing microscopy images and quantitative data of biological objects, such as single-molecule, cell, tissue, individual, etc., and software tools for analysis. Microscopy images and quantitative biological data come from a variety of species and sources, and are obtained by experimental methods as well as computational simulations.



Samples

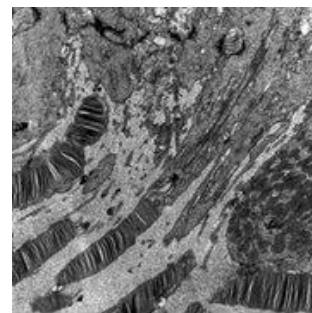
Microscopy Images



Calcium response and shape changes in oocyte of *C. elegans*.

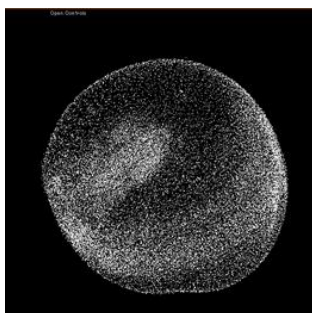


DIC image of nuclear division dynamics in *C. elegans* embryo.

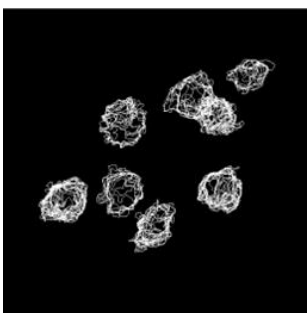


TEM image of retinal tissue from human embryonic stem cells.

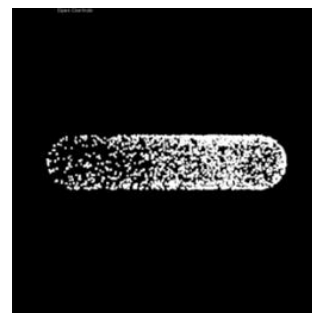
Quantitative Data



Nuclear division dynamics in *D. rerio* wild-type embryo.



Nuclear division dynamics in *C. elegans* wild-type embryo.



Single molecule dynamics in *E. coli* wild-type.

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References

1. Kyoda K et al., SSBD: an ecosystem for enhanced sharing and reuse of bioimaging data, *Nucleic Acids Research*, Volume 53, Issue D1, 6 January 2025, Pages D1716-D1723, doi: 10.1093/nar/gkae860